

ID ABSTRACT			
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Short title: OS-codes: ms201b	FLEXIBLE APPROACH OF COMBINING SENSE WITH MOVING-B	ID Date: Action code: 2	Action Code Date: [REDACTED]

#### ABSTRACT

##### *technical field:*

The invention relates to a magnetic resonance imaging method wherein magnetic resonance signals are acquired at several positions of a patient carrier (moving bed imaging). The magnetic resonance signals are acquired from a region that is larger than the field-of-view. Both global (body) receiver coils and (local) surface receiver coils are used to pick-up the magnetic resonance signals. Further, undersampled magnetic resonance signals are employed in a parallel imaging type acquisition.

##### *technical measure:*

According to the invention, the magnetic resonance image is reconstructed using the total receive pattern. The receiver pattern includes the coil sensitivity distribution (global and local), tissue properties at respective positions of the patient carrier, dielectric resonances (especially at 3T and higher stationary fields). The receive pattern is obtained from local sensitivity distributions relative to the global load dependent sensitivity pattern.

In an other implementation the receive pattern is obtained from k-space profiles that are common to respective positions of the patient carrier.

##### *technical effect: advantage:*

Magnetic resonance image can be produced for a larger region of interest while employing a small '*field-of-view*'. Thus the invention is especially valuable for short magnet systems.

##### *Remarks:*

The importance of this invention is to be discussed at the next priority setting meeting.

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